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by

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in Association with

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## **ACRONYMS**

ac	acre
AC	alternating current
AEC	Acurex Environmental Corporation
AFV	alternative fuel vehicle
ALS	Area Licensing Scheme
AMFA	Alternative Motor Fuels Act
AMOCO	American Oil Company
ANL	Argonne National Laboratory
API	American Petroleum Institute
APSC	Arizona Public Service Company
APU	auxiliary power unit
ARPA	Advanced Research Projects Agency
ASTM	American Society for Testing and Materials
ATIS	Advanced Traveler Information Systems
ATMS	Advanced Traffic Management Systems
AVCS	Advanced Vehicle Control Systems
bbl	barrels
BHPPAR	BHP Petroleum Americas Refining, Inc.
BTUs	British Thermal Units
C&C	City & County
CAA	Clean Air Act
CAAA	Clean Air Act Amendments
CAFE	corporate average fuel economy
CARB	California Air Resources Board
CBD	Central Business District
CEC	California Energy Commission
CIP	Capital Improvement Project
CMAQ	Congestion Mitigation and Air Quality Improvement
CNG	compressed natural gas
CO	carbon monoxide
CO <sub>2</sub>	carbon dioxide
COFA	Canadian Oxygenated Fuels Association
CVO	Commercial Vehicle Operations
DAGS	Hawaii State Department of Accounting and General Services
DBEDT	Hawaii State Department of Business, Economic Development & Tourism
DC	direct current
DDC	Detroit Diesel Corporation
DOD	United States Department of Defense
DOE	United States Department of Energy
DOT	Hawaii State Department of Transportation
DSEP	Dual-shaft Electric Propulsion
DTS	City and County of Honolulu Department of Transportation Services



E#	(% Ethanol)
EIA	Energy Information Administration
EIS	Environmental Impact Statement
EO	Executive Order of the President of the United States
EPA	Environmental Protection Agency
EPRI	Electric Power Research Institute
EPACT	National Energy Policy Act of 1992
ETBE	Ethyl Tertiary Butyl Ether
EV	electric vehicle
FAA	Federal Aviation Administration
FEIS	Final Environmental Impact Statement
FFVs	fuel flexible vehicles
FHWA	Federal Highway Administration
FMVSS	Federal Motor Vehicle Safety Standards
FOB	free-on-board
FTA	Federal Transit Authority
FY	fiscal year
gal	gallon
GASCO	The Gas Company
GEG	gasoline equivalent gallon
GM	General Motors
gpy	gallons per year
GRH	Guaranteed Ride Home
GSA	General Services Administration
GVW	gross vehicle weight
HART	Honolulu Area Rapid Transit
HC&S Co.	Hawaiian Commercial and Sugar Company, Inc.
HD	Harbors Division
HGVs	heavy duty vehicles
HECO	Hawaiian Electric Company
HEI	Hawaiian Electric Industries, Inc.
HELCO	Hawaii Electric & Light Co., Inc.
HEP	Hawaii Energy Policy
HES-5	Hawaii Energy Strategy #5
HEVDP	Hawaii Electric Vehicle Demonstration Program
HFFC	Hawaii Fueling Facilities Corporation
HHC	Hawaiian Homes Commission
HHV	Higher Heating Value
HNEI	Hawaii Natural Energy Institute
HOV	high occupancy vehicle
hp	horsepower
H-POWER	Honolulu Project of Waste Energy Recovery
HPTA	Honolulu Public Transit Authority
HRT	Honolulu Rapid Transit
HSPA	Hawaiian Sugar Planters' Association
IC	internal combustion
ICE	internal combustion engine
IDSEP	Improved Dual Shaft Electric Propulsion
IGCC	Integrated Gasification Combined Cycle

IPP	independent power producers
ISTEA	Integrated Surface Transportation Efficiency Act
IVHS	intelligent vehicle/highway systems
J	joules (1 Btu = 1055 joules)
kWh	kiloWatt-hour
LDVs	light duty vehicles
LEBU	large-eddy breakup
LEV	low emission vehicle
LNG	liquefied natural gas
LOS	level of service
LOTMA	Leeward Oahu Transportation Management Association
LPG	liquefied petroleum gas
M#	(% Methanol)
MECO	Maui Electric Company
MEO	Maui Economic Opportunity, Inc.
mgpy	million gallons per year
MIS	management and information system
mpg	miles per gallon
MSW	municipal solid waste
MTA	Mass Transportation Agency
MTBE	methyl tertiary butyl ether
MW	Megawatts
N/A	not applicable
NG	natural gas
NOx	nitrogen oxides
NRC	National Research Council
NREL	National Renewable Energy Laboratory
O&M	operation and maintenance
OEM	original equipment manufacturers
OMPO	Oahu Metropolitan Planning Organization
ORNL	Oak Ridge National Laboratory
OTA	Office of Technology Assessment, United States Congress
OTEC	Ocean Thermal Energy Conversion
PICHT	Pacific International Center for High Technology Research
POD	pedestrian-oriented development
POL	petroleum-oil-lubricants
PUC	primary urban center
QA/QC	quality assurance/quality control
RDD	research, development and demonstration programs
RTP	Regional Transportation Plan
RUL	regular unleaded gasoline
RVP	Reid vapor pressure
SAE	Society of Automotive Engineers
SCA	South Coast Air
SCAQMD	South Coast Air Quality Management District
SCE	Southern California Edison
SDOT	State Department of Transportation

SMPG	seat-miles per gallon
SNG	synthetic natural gas
SOV	single occupant vehicles
SRIC	short-rotation, intensive-culture
SVMC	Specialty Vehicle Manufacturing Corporation
TAME	tertiary amyl ethyl ether
TBA	tertiary butyl alcohol
TCMs	transportation control measures
TDM	transportation demand management
TMA	Transportation Management Association
TRO	trip reduction ordinance
TSM	transportation systems management
U.S.	United States
U.S.DOE	United States Department of Energy
U.S.DOT	United States Department of Transportation
UH	University of Hawaii
USABC	United States Advanced Battery Consortium
USDA	United States Department of Agriculture
v/c	volume to capacity ratio
VHT	vehicle hours traveled
VMT	vehicle miles traveled
WTC	World Trade Center
ZEV	zero emission vehicle

1 hectare (ha)	=	2.471 acres
1 acre (ac)	=	.0405 hectare